

Docket No.	Patent No.	Country	Title	Issue Date	Inventor(s)	
37139XX 14803US01	5365546	US	Method of and Apparatus for Controlling Modulation of Digital Signals in Frequency Modulated Transmissions	11/15/1994	William Ronald Steven	Frede Mahany Koenck
37882YC 14777US01	5394436	US	Radio Frequency Local Area Network	02/28/1995	Robert Ronald Ronald	Meier Mahany Luse
36625X 14342US01	4,924,462	US	Multiterminal Communication System and Method	01/03/1989	Marvin Sojka	
36767XYA/B 14386US01	5418684	US	Hand-Held Data Capture System with Interchangeable Modules	05/23/1995	George Steven Ronald Keith Arvin Darald Dennis Robert William Darrell Phillip	Hanson Koenck Mahany Cargin, Jr. Danielson Schultz Durbin Geers Gibbs Boatwright Miller
37834ZX 14402US01	5425051	US	Radio Frequency Communication Network Having Adaptive Parameters	06/13/1995	Ronald	Mahany
37882XA 14400US01	5428636	US	Radio Frequency Local Area Network	06/27/1995	Robert	Meier
36500XXX 14369US01	5483676	US	Mobile Radio Data Communication System and Method	01/09/1996	Marvin Guy Ronald	Sojka West Mahany
INT094-04 14209US01	5495500	US	Homodyne Radio Architecture for Direct Sequence Spread Spectrum Data Reception	02/27/1996	Alan	Jovanovich
37972C 14233US01	5500872	US	Spread Spectrum Base Band Processor	03/19/1996	Ronald Patrick Steven	Mahany Kinney Koenck
37882YAX 14773US01	5504746	US	Radio Frequency Local Area Network	04/02/1996	Robert	Meier
36808XYC 14346US01	5515303	US	Hand-held Computerized Data Collection Terminal with Rechargeable Battery Pack Sensor and Battery Power Conservation	05/07/1996	Darrell William Keith Ronald Dennis Darald	Boatwright Gibbs Cargin, Jr. Mahany Durbin Schultz

Docket No.	Patent No.	Country	Title	Issue Date	Inventor(s)	
36767XYC 14381US01	5530619	US	Hand-held Data Capture System with Interchangeable Modules and Side-Mounted Function Key	06/25/1996	Ronald Dennis William George Arvin Keith Darald Robert Steven Darrell Phillip	Mahany Durbin Gibbs Hanson Danielson Cargin, Jr. Schultz Geers Koenck Boatwright Miller
37940E 14350US01	5539193	US	Modular Hand-Held Data Entry System	07/23/1996	Darrell Keith Arvin Richard Glen Steven Dennis George Ronald Robert Darald William Phillip James	Boatwright Cargin, Jr. Danielson Arendsdorf Adams Koenck Durbin Hanson Mahany Geers Schultz Gibbs Miller Hutton
37940F 14779US01	5539194	US	Modular Hand-Held Data Entry System	07/23/1996	Darald George Phillip Steven Glen Dennis Ronald William Robert Richard Arvin Keith James Darrell	Schultz Hanson Miller Koenck Adams Durbin Mahany Gibbs Geers Arendsdorf Danielson Cargin, Jr. Hutton Boatwright
38050B 14403US01	5546397	US	High Reliability Access Point for Wireless Local Area Network	08/13/1996	Ronald	Mahany
37139XXA 14783US01	5555276	US	Method of and Apparatus for Controlling Modulation of Digital Signals in Frequency - Modulated Transmissions	09/10/1996	Ronald William Steven	Mahany Frede Koenck

Docket No.	Patent No.	Country	Title	Issue Date	Inventor(s)	
INT093-49 14338US01	5565670	US	Cordless RF Link for Bar Code Input Device Modulating Impulses Corresponding to Data State Transitions	10/15/1996	John	Flaherty
36767XZXX 14774US01	5567925	US	Hand-Held Data Capture System with Interchangeable Modules	10/22/1996	Darald George Jeffrey Phillip Steven	Schultz Hanson Krunnusz Miller Koenck
37998XB 14391US01	5574979	US	Periodic Interference Avoidance in a Wireless Radio Frequency Communication System	11/12/1996	Guy	West
38017 14370US01	5590346	US	Antenna Cap for Computer Device Utilizing a Radio Card	12/31/1996	Guy Ronald	West Mahany
INT093-09C 14371US01	5602380	US	Barcode Scanner-Reader Wireless Infrared Link	02/11/1997	Jon	Bishay
37967B 14392US01	5602854	US	Wireless Personal Local Area Network Utilizing Removable Frequency Modules with Digital Interfaces and Idle Sense Communication Protocol	02/11/1997	Charles Ronald Guy Ronald	Gollnick Luse West Mahany
INT090-05C 14399US01	5610595	US	Packet Radio Communication System Protocol	03/11/1997	Gary Joseph Jay	Garrabrant Savarese Cho
38157 14404US01	5627412	US	Dynamically Switchable Power Supply	05/06/1997	Paul	Beard
37998XD 14405US01	5657317	US	Hierarchical Communication System using Premises, Peripheral and Vehicular Local Area Networking	08/12/1997	Ronald Guy	Mahany West
37882AXX 14375US01	5673031	US	Redundant Radio Frequency Network Having a Roaming Terminal Communication Protocol	09/30/1997	Robert	Meier
37977B 14784US01	5679943	US	Hand-Held Terminal with Display Screens, Interactive Screens, Magnetic Credit Card Readers, Scanners, Printers and Handlers	10/21/1997	John Darald Steven Mark	Rohde Schultz Koenck Rasmussen
36767XZAB 14786US01	5680633	US	Modular, Portable Data Processing Terminal for use in a Radio Frequency Communication Network	10/21/1997	Patrick Guy Steven Ronald Phillip	Kinney West Koenck Mahany Miller

Docket No.	Patent No.	Country	Title	Issue Date	Inventor(s)
37967C 14414US01	5682379	US	Wireless Personal Local Area Network	10/28/1997	Charles Gollnick Guy West Ronald Luse Ronald Mahany
37998G 14772US01	5696903	US	Hierarchical Communications System using Microlink, Data Rate Switching, Frequency Hopping and Vehicular Local Area Networking	12/09/1997	Ronald Mahany
INT094-11 14394US01	5703950	US	Method and Apparatus for Controlling Country Specific Frequency Allocation	12/30/1997	Duane Charron Steven Duke Alan Jovanovich
37834YYB 14347US01	5708680	US	Network Utilizing a Controller and Base Transceivers to Route Voice Packets	01/13/1998	Charles Gollnick Ronald Mahany Marvin Sojka Richard Arensdorf Ronald Luse Mary Detweiler Keith Cargin, Jr. James Chossen John Pavek Amos Young Guy West Gary Spiess Arvin Danielson
38000FB 14390US01	5708833	US	Antenna Cap, Antenna Connectors and Telephone Line Connectors for Computer Devices Utilizing Radio and Modem Cards	01/13/1998	Guy West Ronald Mahany Patrick Kinney
37998XG 14776US01	5726984	US	Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones	03/10/1998	Joseph Kubler Michael Morris
38099A 14368US01	5734585	US	Method and Apparatus for Sequencing Power Delivery in Mixed Supply Computer Systems	03/31/1998	Paul Beard
37882YD 14417US01	5740366	US	Communication Network Having a Plurality of Bridging Nodes which Transmit A Beam to Terminal Nodes in Power Saving State that it Has Messages Awaiting Delivery	04/14/1998	Ronald Mahany Ronald Luse Robert Meier
36808YXCB 14440US01	5747786	US	Communication Module for a Data Capture System	05/05/1998	Dennis Durbin Darrell Boatwright Ronald Mahany Darald Schultz Keith Cargin, Jr.

Docket No.	Patent No.	Country	Title	Issue Date	Inventor(s)	
38009EA 14373US01	5748619	US	Communication Network Providing Wireless and Hard-Wired Dynamic Routing	05/05/1998	Robert	Meier
38072 14377US01	5748676	US	Network Utilizing Modified Preambles that Support Antenna Diversity	05/05/1998	Ronald	Mahany
37998XE 14393US01	5790536	US	Hierarchical Communication System Providing Intelligent Data, Program and Processing Migration	08/04/1998	Guy Ronald Michael Robert Arvin	West Mahany Morris Meier Danielson
36837E 14441US01	5805807	US	Multilevel Data Communication System Including Local and Host Systems	09/08/1998	Ronald Arvin Phillip Guy Keith George Steven Steven	Mahany Danielson Miller West Cargin, Jr. Hanson Koenck Salvay
37834YYA 14434US01	5844893	US	System for Coupling Host Computer Means with Base Transceiver Units on a Local Area Network	12/01/1998	Keith Marvin Mary Robert Guy Gary John Ronald Arvin Richard Amos Charles James Ronald	Cargin, Jr. Sojka Detweiler Geers West Spiess Pavek Mahany Danielson Arendsdorf Young Gollnick Chossen Luse
37834ZXA 14234US01	5862171	US	Radio Frequency Communication Network Having Adaptive Communication Parameters	01/19/1999	Ronald	Mahany
38017A 14437US01	5870279	US	Antenna Cap for Computer Device Utilizing a Radio Card	02/09/1999	Guy Ronald	West Mahany
38066X 14800US01	5880867	US	Infrared Backbone Communication Network Having a Radio Frequency Backup Channel	03/09/1999	Ronald	Mahany
38066A 14804US01	5880868	US	Infrared Backbone Communication Network Having a Radio Frequency Backup Channel	03/09/1999	Ronald	Mahany

Docket No.	Patent No.	Country	Title	Issue Date	Inventor(s)
36500YZCXA 14436US01	5896561	US	Communication Network Having a Dormant Polling Protocol	04/20/1999	Steve Schrader Ronald Mahany
36767XYD 14385US01	5898162	US	Hand-Held Data Capture System with Interchangeable Module	04/27/1999	Dennis Durbin Darrell Boatwright William Gibbs Robert Geers George Hanson Phillip Miller Steven Koenck Ronald Mahany Keith Cargin, Jr. Arvin Danielson Darald Schultz
INT096-32 14395US01	5912921	US	Concurrent Multiple Data Rate Communications in a Wireless Local Area Network	06/15/1999	John Mensonides Alan Jovanovich
37139XXB 14435US01	5912926	US	Method and Apparatus for Controlling Modulation of Digital Signals in Frequency Modulated Transmissions	06/15/1999	Ronald Mahany Steven Koenck William Frede
37940G 14432US01	5917175	US	Modular Hand-Held Data Entry System with Voice Interface	06/29/1999	Ronald Mahany Steven Koenck George Hanson William Gibbs Arvin Danielson Darrell Boatwright Dennis Durbin Phillip Miller Darald Schultz Keith Cargin, Jr. Robert Geers
INT094-11C 14390US01	5940509	US	Method and Apparatus for Controlling Country Specific Frequency Allocation	08/17/1999	Steven Duke Duane Charron Alan Jovanovich

Docket No.	Patent No.	Country	Title	Issue Date	Inventor(s)	
37834XXBX 14413US01	5940771	US	Network Supporting Roaming, Sleeping Terminals	08/17/1999	Mary Guy Ronald Keith Richard Ronald Robert Robert Charles James Arvin Gary Marvin John Amos	Detweiler West Luse Cargin, Jr. Arensdorf Mahany Meier Geers Gollnick Chossen Danielson Spiess Sojka Pavek Young
INT096-30 14384US01	5946344	US	Multiple-Rate Direct Sequence Architecture Utilizing a Fixed Chipping Rate and Variable Spreading Code Lengths	08/31/1999	Alan John Duane	Jovanovich Mensonides Charron
37998XDA 14412US01	5949776	US	Hierarchical Communication System using Premises, Peripheral and Vehicular Local Area Networking	09/07/1999	Ronald Guy	Mahany West
38050BAY 14397US01	5960344	US	Local Area Network Having Multiple Channel Wireless Access	09/28/1999	Ronald	Mahany
INT096-25 14372US01	5982812	US	Method and Apparatus for Monitoring Frequency Synthesizer Locking Time	11/09/1999	John Alan	Mensonides Jovanovich
38190R 14343US01	5990733	US	Delay Line Ramp Demodulator	11/23/1999	Ronald Tom	Mahany Schuster
38000EA 14802US01	5991864	US	Power Connectors, Antenna Connectors and Telephone Line Connectors for Computer Devices Utilizing Radio and Modem Cards	11/23/1999	John Ronald Patrick	Mallard Mahany Kinney
INT097-06 14212US01	6005530	US	Switched Gain Antenna for Enhanced System Performance	12/21/1999	John Alan	Mensonides Jovanovich
INT095-35 14401US01	6005885	US	Methodology for Discontinuous Radio Reception Utilizing Embedded Frame Length Words	12/21/1999	Alan John	Jovanovich Mensonides

Docket No.	Patent No.	Country	Title	Issue Date	Inventor(s)	
36649XZC 14433US01	6006100	US	Multi-Level, Hierarchical Radio-Frequency Communication System	12/21/1999	Steven George Keith Arvin Steven Phillip Ronald Guy	Salvay Hanson Cargin, Jr. Danielson Koenck Miller Mahany West
INT096-29 14210US01	6009119	US	Adaptive Power Leveling of an RF Transceiver Utilizing Information Stored in Non-Volatile Memory	12/28/1999	John Alan	Mensonides Jovanovich
36767XZAC 14415US01	6014705	US	Modular Portable Data Processing Terminal Having A Higher Layer and Lower Layer Partitioned Communication Protocol Stack for use in a Radio Frequency Communication Network	01/11/2000	Guy Patrick Steven Ronald Phillip	West Kinney Koenck Mahany Miller
38072A 14213US01	6018555	US	Network Utilizing Modified Preambles that Support Antenna Diversity	01/25/2000	Ronald	Mahany
36808YXCD 14775US01	6023147	US	Hand-Held Computerized Data Collection Terminal with Rechargeable Battery Pack Sensor and Battery Power Conservation	02/08/2000	Darrell Darald Keith Dennis Ronald William	Boatwright Schultz Cargin, Jr. Durbin Mahany Gibbs
37882YAYA 14389US01	6046992	US	A Radio Frequency Local Area Network	04/04/2000	Robert Ronald	Meier Luse
INT096-31 14438US01	6075807	US	Windowed Digital Matched Filter Circuit for Power Reduction in Battery-Powered CDMA Radios	06/13/2000	John Alan	Mensonides Jovanovich
37882XBA 14387US01	6084867	US	Apparatus and Method of Routing Data in a Radio Frequency Local Area Network	07/04/2000	Robert	Meier
INT094-03C2 14388US01	6118807	US	Methodology For Received Signal Enhancement Utilizing Delay Diversity Processing	09/12/2000	Alan Bruce Frank	Jovanovich WARREN PERGAL
38340RI 14416US01	6172712	US	Television with Hard Disk Drive	01/09/2001	Paul	Beard



Docket No.	Patent No.	Country	Title	Issue Date	Inventor(s)	
36837EA 14380US01	6192400	US	Multilevel Data Communication System Including Local and Host Systems	02/20/2001	Guy Steven Ronald Arvin Phillip George Steven Keith	West Salvay Mahany Danielson Miller Hanson Koenck Cargin, Jr.
36767XYE 14351US01	6244512	US	Hand-Held Data Capture System with Interchangeable Modules	06/12/2001	Arvin Ronald Darald Phillip Steven Darrell George Keith Robert William Dennis	Danielson Mahany Schultz Miller Koenck Boatwright Hanson Cargin, Jr. Geers Gibbs Durbin
38234RX 14780US01	6281850	US	Broadband Multiple Element Antenna System	08/28/2001	Daniel	Klostermann
INT097-02 14439US01	6320896	US	RF Receiver Having Frequency- Hopping/Direct-Sequence Spread Spectrum Signal Discrimination	11/20/2001	Alan John	Jovanovich Mensonides
INT097-03 14396US01	6327312	US	RF Narrowband/Wideband Discriminating System for Spread Spectrum Signal Differentiation	12/04/2001	Alan John	Jovanovich Mensonides
37967CA 14427US01	6359872	US	Wireless Personal Local Area Network	03/19/2002	Ronald Guy Charles Ronald	Mahany West Gollnick Luse
37882YE 14374US01	6374311	US	Radio Frequency Local Area Network	04/16/2002	Ronald Ronald Robert	Mahany Luse Meier
37998XGA 14379US01	6389010	US	Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones	05/14/2002	Joseph Michael	Kubler Morris
37882XBB	6400702	US	A Radio Frequency Local Area Network	06/04/2002	Robert	Meier

Docket No.	Patent No.	Country	Title	Issue Date	Inventor(s)
38009EBA 14344US01	6407991	US,	Communication Network Providing Wireless and Hard-Wired Dynamic Routing	06/18/2002	Robert Meier